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--34. The article of claim 33, wherein said metal oxide is selected from the group of tin oxide, germanium oxide, titanium oxide, aluminum oxide, zirconium oxide, zinc oxide, indium oxide, cadmium oxide, tungsten oxide, vanadium oxide, chromium oxide, molybdenum oxide, nickel oxide, and tantalum oxide.--

--35. The article of claim 33, wherein said accelerant is selected from the group consisting of phosphites, borates, water, alkyl phosphine, borane derivatives and ozone.--

--36. The article of claim 33, wherein said accelerant is triethylphosphite.--

--37. The article of claim 33, further comprising a silicon oxide.--

--38. The article of claim 33, wherein said film is amorphous.--

--39. The article of claim 33, wherein the substrate is glass.--

--40. The article of claim 33, wherein the film has a refractive index which changes continuously.--

--41. The article of claim 33, wherein the film comprises a plurality of layers.--

--42. The article of claim 41, wherein each layer contains a mixture of tin and silicon oxides.--

--43. The article of claim 42, wherein each layer contains a concentration of tin oxide and silicon oxide different from an adjacent layer.--

--44. The article of claim 33, wherein the accelerant is present in an amount of up to abut 0.76 mol. percent.--